

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

New



Chip type, High Temperature Series



Solvent Proof



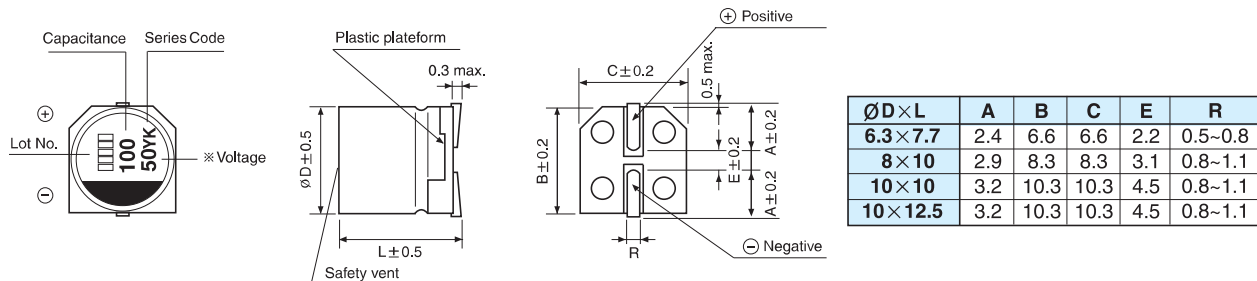
- High temperature compared with YH series
- High temperature range, for 135°C use
- Complied to the RoHS directive
- AEC-Q200 compliant : Please contact us for more details.

YH → YK
High temp.

| Item | Characteristics | | | | | | | | | | |
|--|--|---------------------------------------|------|------|----|----|--------------|------|------|------|------|
| Operating temperature range | -55 ~ +135°C | | | | | | | | | | |
| Leakage current max. | $I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes) | | | | | | | | | | |
| Capacitance tolerance | $\pm 20\%$ at 120Hz, 20°C | | | | | | | | | | |
| Dissipation factor max. (at 120Hz, 20°C) | <table border="1"> <thead> <tr> <th>WV</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>$\tan\delta$</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </tbody> </table> | WV | 25 | 35 | 50 | 63 | $\tan\delta$ | 0.14 | 0.12 | 0.10 | 0.08 |
| | WV | 25 | 35 | 50 | 63 | | | | | | |
| $\tan\delta$ | 0.14 | 0.12 | 0.10 | 0.08 | | | | | | | |
| Low temperature characteristics (Impedance ratio at 100kHz) | $Z(-25^\circ C) / Z(+20^\circ C) \leq 1.5$ $Z(-55^\circ C) / Z(+20^\circ C) \leq 2.0$ | | | | | | | | | | |
| Load life | After an application of DC bias voltage plus the rated AC ripple current for 4000 hours(2000 hours for $\phi D=6.3$) at 135°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage. | | | | | | | | | | |
| | Capacitance change | Within $\pm 30\%$ of initial value | | | | | | | | | |
| | $\tan\delta$ | Less than 200% of the specified value | | | | | | | | | |
| | ESR | Less than 200% of the specified value | | | | | | | | | |
| | Leakage current | Less than specified value | | | | | | | | | |
| Shelf life(at 135°C) | After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4 | | | | | | | | | | |
| Resistance to soldering heat | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 10 seconds. | | | | | | | | | | |
| | Leakage current | Less than specified value | | | | | | | | | |
| | Capacitance change | Within $\pm 10\%$ of initial value | | | | | | | | | |
| | $\tan\delta$ | Less than specified value | | | | | | | | | |

DRAWING

Unit : mm



DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| μF | WV | 25 | | 35 | | 50 | | | 63 | | |
|---------|---------|----|------|---------|----|------|--|------|-------|----|------|
| 33 | | | | | | | | | 8×10 | 40 | 1100 |
| 47 | | | | | | 8×10 | 30 | 1250 | | | |
| 56 | | | | | | | | | 10×10 | 30 | 1400 |
| 68 | | | | 6.3×7.7 | 35 | 1400 | | | | | |
| 82 | | | | | | | | | | | |
| 100 | 6.3×7.7 | 30 | 1400 | | | | | | | | |
| 150 | | | | 8×10 | 27 | 1600 | | | | | |
| 220 | | | | | | | | | | | |
| 270 | 8×10 | 27 | 1600 | 10×10 | 20 | 2000 | | | | | |
| 330 | 10×10 | 20 | 2000 | 10×12.5 | 17 | 2260 | ← Ripple current (mA rms) at 135°C, 100kHz | | | | |
| 470 | 10×12.5 | 16 | 2260 | | | | ← ESR (mΩ) at 20°C, 100kHz Case size $\phi D \times L$ (mm) | | | | |

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| Frequency | 120Hz | 1kHz | 10kHz | 100kHz |
|-------------|-------|------|-------|--------|
| Coefficient | 0.05 | 0.30 | 0.70 | 1.00 |

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